# Zervas Elementary School Reconstruction Project Transportation Division Presentation

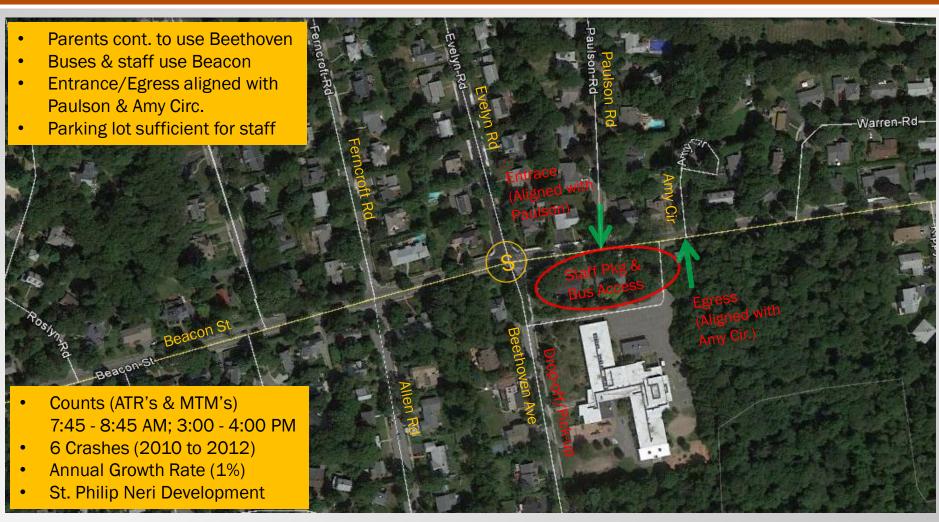
City of Newton

December 1, 2014

# **Existing Conditions**



## **Proposed Site Improvements**



#### **Future Traffic Conditions**

#### Future Vehicle Trips (Design year 2014)

- Increase in enrollment from 320 to 490 (+170 students)
- TIS assumes 1 veh trip/student (+170 trips)
- Using TIS volume of 174 veh currently exiting Beethoven, by extrapolation:
   174 veh/320 stud = Future/490 stud or 266 veh/hr, 266-174 (+92 trips)
- JLA provided following:

Mode	Current (230 Families)		Future (360 Families)	
	Percentage (%)	No. Students	Percentage (%)	No. Students
Walk/Bike	43	134	35	171
Bus	11	34	15	74
Vehicle	46	144*	50	245**
Total	100	312	100	490

<sup>\*</sup> Equates to 105 vehicles with 25% families with more than one student enrolled, 2% car pool, 27% vehicles transporting at least 2 students.

This results in a projected volume of 179 - 105 (+74 trips)

<sup>\*\*</sup> Equates to 179 vehicles with 25% families with more than one student enrolled, 2% car pool, 27% vehicles transporting at least 2 students.

### Traffic Analysis — Future AM Level of Service



#### **Future Traffic Accommodation**



#### **Conclusions & Next Steps**

#### Conclusions

- Site layout provides best configuration to ensure both vehicular/pedestrian safety
- TIS is reasonable and sound. Approach to future traffic volumes conservative yet results in overall improved (and acceptable) LOS. Believe circulation will operate better than projected
- Reconfiguration of Beacon/Beethoven access is major improvement to site
- Parking lot accommodates future staff and extra-curricular events

#### Next Steps

- City will continue to coordinate with Design Team and begin preliminary design of offsite improvements, cost estimates and schedule
- Finalize traffic signal analysis & develop specific improvements/upgrades
- Engage in public outreach program to obtain community input
- Coordinate with various City Committees for necessary approvals
- Finalize design and implement construction

# **End of Presentation**